

# OS Hands On

**Name:** Nikhil Girish

**SRN:** PES2UG21CS334

**Section:** 4F

**Question:** (3) Write a program which accepts two integers x and y. Now use exec to execute another user defined program that prints the product of x and y.

**Hands On.c:**

```
#include <sys/types.h>
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>

int main()
{
    int x, y;
    printf("Enter values for x and y\n");
    scanf("%d", &x);
    scanf("%d", &y);
    char x_str[16], y_str[16];
    sprintf(x_str, "%d", x);
    sprintf(y_str, "%d", y);
    char *args[] = { "./product", x_str, y_str, NULL };
    execvp(args[0], args);
}
```

**Product.c:**

```
#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>
#include <stdlib.h>

int main(int argc, char *argv[])
{
    int x = atoi(argv[1]);
    int y = atoi(argv[2]);
    printf("Product of %d and %d is: %d\n", x, y, (x * y));
}
```

```
    return 0;  
}
```

### Output:

```
vboxuser@Ubuntu:~/Desktop/OS$ gcc product.c -o product  
vboxuser@Ubuntu:~/Desktop/OS$ gcc Hands_On.c  
vboxuser@Ubuntu:~/Desktop/OS$ ./a.out  
Enter values for x and y  
20  
20  
Product of 20 and 20 is: 400  
vboxuser@Ubuntu:~/Desktop/OS$
```